STATE OF MISSOURI

DEPARTMENT OF NATURAL RESOURCES

MISSOURI CLEAN WATER COMMISSION

MISSOURI STATE OPERATING PERMIT

In compliance with the Missouri Clean Water Law, (Chapter 644 R.S. Mo. as amended, hereinafter, the Law), and the Federal Water Pollution Control Act (Public Law 92-500, 92nd Congress) as amended,

Permit No.:	MO-0002453
Owner:	Expert Management, Inc.
Address:	Uniqema Corporate Center, 1000 Uniqema Blvd, 3rd Floor New Castle, DE 19720-2790
Continuing Authority:	Same as above
Address:	Same as above
Facility Name:	Expert Management, Inc., Inactive Plant
Address:	(Formerly known as ICI Explosives USA, Inc., Formerly known as Atlas Powder Company) 3078 County Road 180, Carthage, MO 64836-7493 Highway AA, Joplin, MO 64801
Legal Description:	See page 2
Receiving Stream:	Grove Creek (P)
First Classified Stream and ID:	Grove Creek (P) (03204)
USGS Basin & Sub-watershed No.:	(11070207-110003)

is authorized to discharge from the facility described herein, in accordance with the effluent limitations and monitoring requirements as set forth herein:

FACILITY DESCRIPTION

See page 2

This permit authorizes only wastewater discharges under the Missouri Clean Water Law and the National Pollutant Discharge Elimination System; it does not apply to other regulated areas. This permit may be appealed in accordance with Section 644.051.6 of the Law.

July 11, 2003
Effective Date

January 9, 2004
Revised

Stephen M. Mahfood, Director, Department of Natural Resources
Executive Secretary, Clean Water Commission

July 11, 2008
Expiration Date

Jim Hull, Director of Staff, Clean Water Commission

FACILITY DESCRIPTION (continued)

General: This site is a former explosives / chemical production facility undergoing corrective action. The total design flow for all permitted outfalls is 82 MGD.

Outfall #001 – This outfall has been eliminated.

Outfall #002 – Former Explosives / Chemical Plant - SIC reported by applicant to be #8741. MDNR WPCP assigns SIC #1629, heavy construction-reclamation project. SIC formerly was #2892.

The outfall receives stormwater runoff and spring seepage from a 231 acre watershed where former production facilities existed and contamination remains.
Design flow is 36.38 MGD.
Actual flow is dependent on precipitation rate.
Legal Description: SW ¼, NE ¼, Sec. 36, T28N, R32W, Jasper County

Outfall #003 – Inactive Explosives / Chemical Plant
Outfall not in use. Flows have been routed to Outfall #002.

Outfall #004 – Former Explosives / Chemical Plant - SIC #(see Outfall #002)
This outfall receives stormwater runoff and spring seepage from a 246 acre watershed where former production facilities existed and contamination remains. Some storm water runoff from the northwest portion of the EBVEEC incinerator property drains towards this outfall.
Design flow is 38.74 MGD.
Actual flow is dependent on precipitation rate.
Legal Description: SW ¼, NE ¼, Sec. 25, T28N, R32W, Jasper County

Outfalls #005 - #008 – These outfalls have been eliminated.

Outfall #009 – Former Explosives / Chemical Plant - SIC #(see Outfall #002)
This outfall receives stormwater runoff from a 3.2 acre watershed where former production facilities existed and contamination remains.
Design flow is 0.50 MGD.
Actual flow is dependent on precipitation rate.
Legal Description: SW ¼, NE ¼, Sec. 1, T27N, R32W, Jasper County

Outfall #010 – Former Explosives / Chemical Plant - SIC #(see Outfall #002)
This outfall receives stormwater runoff from a 26.9 acre watershed where former production facilities existed and contamination remains.
Design flow is 4.24 MGD.
Actual flow is dependent on precipitation rate.
Legal Description: SW ¼, NE ¼, Sec. 1, T27N, R32W, Jasper County

Outfall #011 – Former Explosives / Chemical Plant
This outfall has been eliminated. Flows have been routed to Outfall #010.

Outfalls #012 - #016 – These outfalls have been eliminated.

Outfall #017 – Former Explosives / Chemical Plant - SIC #(see Outfall #002)
This outfall receives stormwater runoff from a 14.1 acre watershed where contamination from production / production related activities exists.
Design flow is 2.22 MGD.
Actual flow is dependent on precipitation rate.
Legal Description: SW ¼, NE ¼, Sec. 1, T27N, R32W, Jasper County

PERMIT NUMBER MO-0002453

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

The permittee is authorized to discharge from outfall(s) with serial number(s) as specified in the application for this permit. The final effluent limitations shall become effective upon issuance and remain in effect until expiration of the permit. Such discharges shall be controlled, limited and monitored by the permittee as specified below:

OUTFALL NUMBER AND EFFLUENT PARAMETER(S)	UNITS	FINAL EFFLUENT LIMITATIONS			MONITORING REQUIREMENTS	
		DAILY MAXIMUM	WEEKLY AVERAGE	MONTHLY AVERAGE	MEASUREMENT FREQUENCY	SAMPLE TYPE
Outfalls #002, #004, #009, #010 & #017 (Note 1)						
Flow	MGD	*		*	once/quarter***	24 hr. estimate
Ammonia as N	mg/L	20		10	once/quarter***	grab
Nitrate as N	mg/L	20		15	once/quarter***	grab
pH – Units	SU	**		**	once/quarter***	grab
2,4 Dinitrotoluene	mg/L	*		*	once/quarter***	grab
2,6 Dinitrotoluene	mg/L	*		*	once/quarter***	grab
Perchlorate	mg/L	*		*	once/quarter***	grab

MONITORING REPORTS SHALL BE SUBMITTED ANNUALLY; THE FIRST REPORT IS DUE October 28, 2004. THERE SHALL BE NO DISCHARGE OF FLOATING SOLIDS OR VISIBLE FOAM IN OTHER THAN TRACE AMOUNTS.

B. STANDARD CONDITIONS

IN ADDITION TO SPECIFIED CONDITIONS STATED HEREIN, THIS PERMIT IS SUBJECT TO THE ATTACHED Part I STANDARD CONDITIONS DATED October 1, 1980 and August 15, 1994, AND HEREBY INCORPORATED AS THOUGH FULLY SET FORTH HEREIN.

MO 780-0010 (8/91)

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS (continued)

* Monitoring requirement only.
** pH is measured in pH units and is not to be averaged. The pH is limited to the range of 6.0-9.0 pH units.
*** Sample once per quarter in the months of March, June, September & December.

Note 1 – For Outfall #002, samples are not to be taken when flow is elevated above the pre precipitation flow. Permittee is responsible for determining pre precipitation event flow.

C. SPECIAL CONDITIONS

1. This permit may be reopened and modified, or alternatively revoked and reissued, to:
   (a) Comply with any applicable effluent standard or limitation issued or approved under Sections 301(b)(2)(C) and (D), 304(b)(2), and 307(a) (2) of the Clean Water Act, if the effluent standard or limitation so issued or approved:
      (1) contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or
      (2) controls any pollutant not limited in the permit.
   (b) Incorporate new or modified effluent limitations or other conditions, if the result of a waste load allocation study, toxicity test or other information indicates changes are necessary to assure compliance with Missouri's Water Quality Standards.
   (c) Incorporate new or modified effluent limitations or other conditions if, as the result of a watershed analysis, a Total Maximum Daily Load (TMDL) limitation is developed for the receiving waters which are currently included in Missouri's list of waters of the state not fully achieving the state's water quality standards, also called the 303(d) list.

   The permit as modified or reissued under this paragraph shall also contain any other requirements of the Clean Water Act then applicable.

C. SPECIAL CONDITIONS (continued)

2. All outfalls must be clearly marked in the field.

3. Report as no-discharge when a discharge does not occur during the report period.

4. Flow Measurements

Appropriate flow measurement devices and methods consistent with accepted practices shall be selected and used to insure the accuracy and reliability of measurements of the volume of monitored discharges. The devices shall be installed, calibrated and maintained to insure that the accuracy of the measurements are consistent with the accepted capability of that type of device. Devices selected shall be capable of measuring flows with a maximum deviation of less than ± 10% from true discharge rates throughout the range of expected discharge volumes.

5. Changes in Discharges of Toxic Substances

The permittee shall notify the Director as soon as it knows or has reason to believe:
(a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant which is not limited in the permit, if that discharge will exceed the highest of the following "notification levels:"
    (1) One hundred micrograms per liter (100 µg/L);
    (2) Two hundred micrograms per liter (200 µg/L) for acrolein and acrylonitrile; five hundred micrograms per liter (500 µg/L) for 2,5 dinitrophenol and for 2-methyl-4, 6-dinitrophenol; and one milligram per liter (1 mg/L) for antimony;
    (3) Five (5) times the maximum concentration value reported for the pollutant in the permit application;
    (4) The level established in Part A of the permit by the Director.
(b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant, which was not reported in the permit application.

6. General Criteria. The following water quality criteria shall be applicable to all waters of the state at all times including mixing zones. No water contaminant, by itself or in combination with other substances, shall prevent the waters of the state from meeting the following conditions:
(a) Waters shall be free from substances in sufficient amounts to cause the formation of putrescent, unsightly or harmful bottom deposits or prevent full maintenance of beneficial uses;
(b) Waters shall be free from oil, scum and floating debris in sufficient amounts to be unsightly or prevent full maintenance of beneficial uses;
(c) Waters shall be free from substances in sufficient amounts to cause unsightly color or turbidity, offensive odor or prevent full maintenance of beneficial uses;
(d) Waters shall be free from substances or conditions in sufficient amounts to result in toxicity to human, animal or aquatic life;
(e) There shall be no significant human health hazard from incidental contact with the water;
(f) There shall be no acute toxicity to livestock or wildlife watering;
(g) Waters shall be free from physical, chemical or hydrologic changes that would impair the natural biological community;
(h) Waters shall be free from used tires, car bodies, appliances, demolition debris, used vehicles or equipment and solid waste as defined in Missouri's Solid Waste Law, section 260.200, RSMo, except as the use of such materials is specifically permitted pursuant to section 260.200-260.247.

7. Permittee needs to be aware that if blocks of the plant site are sold before outfall termination, new owners may need to establish their own outfalls.

Date of Fact Sheet: April 3, 2003

Date of Public Notice: November 7, 2003

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT
FACT SHEET

This Fact Sheet explains the applicable regulations, rationale for development of this permit and the public participation process.

NPDES PERMIT NUMBER: MO-0002453

FACILITY NAME: Expert Management Inc., Inactive Explosives Plant formerly known as ICI Explosives, USA and Atlas Power Company

OWNER NAME: Expert Management, Inc.

LOCATION: Sec. 1 & 2, T27N, R32W and Sec. 25, 26, 35 & 36, T28N, R32W, Jasper County

RECEIVING STREAM: Grove Creek

FACILITY CONTACT PERSON: Donald Pawlowski TELEPHONE: (610) 670-6442

FACILITY DESCRIPTION AND RATIONALE

This property is a former explosives and chemical production facility that was once owned by ICI Explosives, Inc. It contains several Solid Waste Management Units (SWMU) and is undergoing corrective action. The plant is now inactive, but the buildings and equipment are still there. Since the area is contaminated with explosive constituents, nitrates and perchlorate, stormwater and spring seepage have the potential to be impacted by these chemicals. The design flow for all permitted outfalls is 82 MGD. Actual flow is dependent on precipitation rate.

This permit will be issued for a period of five years